

This question paper contains 2 printed pages]

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S. No. of Question Paper : **6161**

Unique Paper Code : **219101**

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Name of the Paper : **GEHT-101—Earth System Science**

Name of the Course : **B.Sc. (Hons.) Geology**

Semester : **I**

Duration : **3 Hours**

Maximum Marks : **75**

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer any *Five* questions.

All questions carry equal marks.

1. Describe the characteristics of Solar System. Discuss the most accepted theory related to origin of earth.
2. Explain the different plate boundaries and associated Earthquake patterns in detail with suitable diagram.
3. Comment upon any *two* of the following :
 - (a) Isostasy
 - (b) Magnetic Polarity
 - (c) Ekman spiral.
4. Discuss the Earth magnetic field. What do you understand by Paleomagnetism ? How does Paleomagnetism help us to decipher the paleoplate position ?

P.T.O.

5. With the help of diagram illustrate the layering and composition of the interior of the earth as deduced by seismic waves.
6. Write short notes on any *three* of the following :
 - (a) Stratosphere
 - (b) Coastal upwelling
 - (c) Pyroclastics
 - (d) Mohorovičić discontinuity
7. Differentiate between any *three* of the following pairs :
 - (a) Lithosphere and Asthenosphere
 - (b) Mid-oceanic Ridges and Trenches
 - (c) El Nino & La Nino
 - (d) Terrestrial and Jovian Planets
8. Discuss various processes of soil formation. Explain the soil profile with neat diagram.